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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/295,957	04/21/1999	K. MANI CHANDY	06618/303001	7789

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EXAMINER

TRUONG, LECHI

ART UNIT

PAPER NUMBER

2151

DATE MAILED: 07/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/295,957

Applicant(s)

CHANDY ET AL.

Examiner

LeChi Truong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 23 July 1999 and 21 April 1999.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. Claim 1,2,3,4 are rejected under 35 U.S.C. 102(e) as being anticipated by Duggan et al (U.S pat 5,584,035).

As to claim 1, Duggan teaches inbox (incoming message, col 10, ln 20-23), outbox (outgoing message, col 10, ln 20-23), messages received and messages to be transmitted (sending and receiving messages over the network, col 10, ln 20-21), freeze method (deactivate, col 12, ln 35), saves the state of the process object to persistent storage (saves its state to disk, col 12, ln 43-45), thaw method (activate, col 12, ln 18), restores the frozen process object to persistent storage (the task then reads the object's state into RAM . The object is now active, col 12, ln 30-34), interconnecting (inter-object link, col 3, ln 25-26), personal network (networked personal computers, col 4, ln 56-58), passing messages between the inter-connected (object intercommunicate by sending messages to one another, col 10, ln 14-15).

As to claim 2, Duggan teaches mail daemon object for controlling the order of messages in each inbox (transport control TC1, col 10, ln 49-55, message queue Q for incoming message, col 10, ln 22-23, ln37-38).

As to claim 3, Duggan teaches summoning response method, for instantiating the process object (procedure in the OM, col 12, ln ln 29-30, ln 44-45).

As to claim 4, Duggan teaches the summoning response method cause the thaw method of the process object to be invoked (calls the OM Activate task procedure to inform the OM of which queue to send the incoming message, col 12, ln 29-33).

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As to claim 5, Duggan teaches a snapshot variable (the object ID's and flags F1, F2, F3, col 10, ln 29-31), process object has record its state (the table T of each OM records the general object type, col 10, ln 26-27).

***Claim Rejections - 35 USC § 103***

2. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Duggan further in of Miller et al (U.S pat 6,049,838)

As to claim 6, Duggan teaches saves the state of the process object (saves its state to disk, col 12, ln 43-45).

Duggan does not teach "date field", "updates the current date value for the processes object to the date field of the received message" and "increments a clock for the process object". However, Miller teaches date field (expiration date, col 14, ln 20-33), update the current date value for the process object to the date field of the received message (updates that entry's expiration date ED to the expiration date set in the message if the new ED is greater than the existing ED, col 14, ln 23-26), increments a clock for the process object (remote object is at least as late as the requested ED, col 14, ln 30-31) for distributed system framework.

It would have been obvious to apply the teaching of Miler to Duggan in order to make distributed object system more flexible when messages are transferred between process objects.

3. ***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The examiner can normally be reached on 8 - 5.

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The fax phone numbers for the organization where this application or proceeding is assigned are 703 746-7239 for regular communications and 703 -746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305 9000.

LeChi Truong  
July 1, 2002



ST. JOHN COURTENAY III  
PRIMARY EXAMINER